AMENDMENTS TO THE CLAIMS

- 1. (Currently Amended) A fuel cell separator having gas supply grooves on one side or both sides thereof which is molded from a composition composed mainly of an electrically conductive carbon powder and a binding agent, wherein the electrically conductive carbon powder is present such that its particles longer than 50 µm at maximum in the major axis direction and longer than 30 µm at maximum in the minor axis direction along the vertical cross section of the fuel cell separator occupy more than 50% of the sectional area in the vertical direction.
- 2. (Original) A fuel cell separator having gas supply grooves on one side or both sides thereof which is molded from a composition composed mainly of an electrically conductive carbon powder and a binding agent, wherein said binding agent is contained in an amount of 10 to 50 parts by mass for 100 parts by mass of the electrically conductive carbon powder and the electrically conductive carbon powder is spherical or massive graphite having a mean particle diameter of 100 to 500 μm .

- 3. (Original) The fuel cell separator as defined in Claim 2, wherein the spherical or massive graphite has a bulk density higher than $0.6~\mathrm{g/ml}$.
- 4. (Currently Amended) The fuel cell separator having gas supply grooves on one side or both sides thereof which is molded from a composition composed mainly of an electrically conductive carbon powder and a binding agent as defined in of Claim 2 or 3, wherein the electrically conductive carbon powder is present such that its particles longer than 50 µm at maximum in the major axis direction and longer than 30 µm at maximum in the minor axis direction along the vertical cross section of the fuel cell separator occupy more than 50% of the sectional area in the vertical direction.
- 5. (Previously Amended) The fuel cell separator as defined in Claim 1, which has a resistivity not higher than 20 m Ω ·cm measured according to JIS H0602.
- 6. (Currently Amended) A process for producing a fuel cell separator having gas supply grooves on one side or both sides thereof from a composition composed mainly of an electrically conductive carbon powder and a binding agent, wherein said process comprises comprises comprising injection molding a mixture containing 10 to

50 parts by mass of a binding agent for 100 pars parts by mass of the electrically conductive carbon powder.

- 7. (Original) The fuel cell separator as defined in Claim 6, wherein the electrically conductive carbon powder is spherical or massive graphite having a mean particle diameter of 100 to 500 μ m, and the spherical or massive graphite having a bulk density higher than 0.6 g/ml is used.
- 8. (Currently Amended) A polymer electrolyte fuel cell comprising consisting of a plurality of unit cells connected together, each unit cell consisting of a pair of electrodes holding embracing a polymer electrolyte membrane between them and a pair of separators holding embracing the electrodes between them, said separator separators having passages molded thereon through which gas is supplied and discharged, characterized in that all or part of the separators in the unit fuel cells are those which are defined in Claim 1.